



PTO-1449 <b>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</b>	<b>ATTY. DOCKET NO.</b> 22027.CIP3.CON2	<b>SERIAL NO.</b> 10/615,569
	<b>APPLICANT</b> Johnson et al.	
	<b>FILING DATE</b> 07-07-03	<b>GROUP</b> _____

**LIST OF PRIOR ART CITED BY APPLICANT**

**U.S. PATENT DOCUMENTS**

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>MA</i>	A1	4,662,222	05-05-87	Johnson, Steven A.			
	A2	5,588,032	12-24-96	Johnson et al.			
	A3	6,005,916	12-21-99	Johnson et al.			

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	A4						

**OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)**

<i>MA</i>	A5	P.R. Williamson, "Tomographic inversion in reflection seismology," Geophys. J. Int. 100, pp. 255-274, 1990
	A6	W.W. Kim, D.T. Borup, S.A. Johnson, M.J. Berggren, and Y. Ahou, "Accelerated Inverse Scattering Algorithms for Higher Contrast Objects," in 1987 IEEE Ultrasonics Symposium, 903-906, (IEEE Cat. No. 87ch2492-7)
	A7	S.J. Norton, "iterative Seismic Inversion," Geophysical Journal, No. 94, pp457-468 (1988)
	A8	T.K. Sarkar, E. Arkas, and S.M. Rao (1986) "Application of FFT and the Conjugate Gradient Method for the Solution of Electromagnetic Radiation from Electrically Large and Small Conducting Bodies," IEEE Trans. Antennas Propagat., vol. AP-34, pp. 635-640, May.
	A9	R.J. Wombel and M.A. Fiddy (1988), "Inverse Scattering Within the Distorted-wave Born Approximation," Inverse Problems 4 (1988).
	A10	Y. Zhou, S.A. Johnson, M.J. Berggren, B. Carruth, and W.W. Kim, "Constrained Reconstruction of Object Acoustic Parameters from Noisy Ultrasound Scattering Data," Proc. of the IEEE 1987 Ultrasonics Symposium pp. 897-901 (1987).
	A11	Kostas T. Ladas and A. J. Devaney, "Iterative Methods in Geophysical Diffraction Tomography," Inverse Problems 8 (1992).
	A12	M.J. Berggren, S.A. Johnson, W.W. Kim, D.T. Borup, R.S. Eidens and Y. Zhou, "Acoustic Inverse Scattering Images from Simulated Higher Contrast Objects and from Laboratory Test Objects," Acoustical Imaging 16, Chicago, Illinois, Jun. 1987.
	A13	Brent S. Robinson and James F. Greenleaf, "An Experimental Study of Diffraction Tomography Under the Born Approximation," Acoustical Imaging 18, No. 18, Jun. 1990.
	A14	M.J. Berggren, S.A. Johnson, B.L. Carruth, W.W. Kim, F. Stenger and P.L. Kuhn, "Performance of Fast Inverse Scattering Solutions for the Exact Helmholtz Equation Using Multiple Frequencies and Limited Views," Acoustical Imaging 15, Halifax, Nova Scotia, Jul. 1986.
	A15	W.W. Kim, S.A. Johnson, M.J. Berggren, F. Stenger and C.H. Wilcox, "Analysis of Inverse Scattering Solutions from Single Frequency, Combined Transmission and Reflection Data for the Helmholtz and Riccati Exact Wave Equations," Acoustical Imaging 15, pp. 359-369, Plenum Press (1987).

<b>EXAMINER</b> <i>MA</i>	<b>DATE CONSIDERED</b> 9-30-06 -
------------------------------	-------------------------------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.



PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF PRIOR ART CITED BY APPLICANT	ATTY. DOCKET NO. 22027.CIP3.CON2	SERIAL NO. 10/615,569
	APPLICANT Johnson et al.	
	FILING DATE 07-07-03	GROUP

## OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)

	A16	E.J. Ayme-Bellegarda and T.M. Habashy, "Forward Ultrasonic Scattering from Multidimensional Solid or Fluids Inclusions Buried in Multilayered Elastic Structures," IEEE Trans. Ultras., Ferro., and Freq. Cont., vol 39, No. 1, Jan. 1992.
	A17	E.J. Ayme-Bellegarda, and T.M. Habashy, "Ultrasonic Inverse Scattering of Multidimensional Objects Buried in Multilayered Elastic Background Structures," IEEE Trans. Ultras., Ferro, and Freq. Cont., vol 39, No. 1, Jan. 1992.
	A18	J.K. Cohen and F.G. Hagin, "Velocity Inversion Using a Stratified Reference," Geophysics, 50, 11, 1985.
	A19	E. Crase, A. Pica, M. Noble, J. McDonald, and A. Tarantola, "Robust Elastic Nonlinear Waveform Inversion: Application to Real Data," Geophysics, 55, 5 (May 1990).
	A20	Peter Mora, "Nonlinear Two-dimensional Elastic Inversion of Multioffset Seismic Data," Geophysics, vol. 52, 9, Sep. 1987.
	A21	G.S. Pan, R.A. Phinney and R.I. Odom, "Full-waveform Inversion of Plane-wave Seismograms in Stratified Acoustic Media: Theory and Feasibility," Geophysics, vol. 53, 1 (1988).
	A22	G.R. Franssens, "Calculation of the Elasto-dynamic Green's Function in Layered Media by Means of a Modified Propagator Matrix Method," Geophys. J.R. astr. Soc. 1983.
	A23	B.L.N. Kennett and N.J. Kerry, "Seismic Waves in a Stratified Half Space," Geophys. J.R. astr. Soc. 57, pp. 557-583, 1979.
	A24	
EXAMINER		DATE CONSIDERED 9-30-06
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.		